

## Glossary

- AA assembly area
- AAR after-action review
- AAS Army aviation site
- ACE armored combat earthmover, M9
- AFJPAM Air Force joint pamphlet
- AFV armored fighting vehicle
- alt alternate
- AM amplitude modulation
- AMA aviation maintenance area
- AMC Army Materiel Command
- ammo ammunition
- AO area of operation
- assy assembly
- atk attack
- ATTN attention
- AVLB armored vehicle-launched bridge
- background The features in a target area that surround the target.
- btry battery
- C<sup>2</sup> command and control
- C<sup>2</sup>W command and control warfare. The integrated use of PSYOP, military deception, OPSEC, EW, and physical destruction supported by intelligence to deny

	information to, influence, degrade, or destroy adversary C <sup>2</sup> capabilities while protecting friendly C <sup>2</sup> capabilities against such actions.
C <sup>3</sup>	command, control, and communications
C <sup>3</sup> CM	command, control, and communications countermeasure. The integrated use of OPSEC, military deception, jamming, and physical destruction supported by intelligence to deny information to, influence, degrade, or destroy adversary C <sup>3</sup> capabilities while protecting friendly C <sup>3</sup> capabilities against such actions.
camo	camouflage. The use of natural or artificial materials on personnel, objects, and tactical positions to confuse, mislead, or evade the enemy.
camoufla ge net	Part of a system designed to blend a target with its surroundings and conceal the identity of critical assets (aircraft, fixed targets, vehicles, personnel) where natural cover and/or concealment might be absent or inadequate.
camoufla ge net set	Standard DOD set consisting of a hexagon-shaped net (673.6 sq ft), a diamond-shaped net (224.5 sq ft), and a net repair kit.
camoufla ge net spreader	A plastic or aluminum disc or paddle that is supported by a lightweight pole and used to support camouflage nets above the ground, buildings, or vehicles.
cap	capacity
CB	counterbattery
CCD	camouflage, concealment, and decoys. Methods and resources to prevent adversary observation or surveillance; confuse, mislead, or evade the adversary; or induce the adversary to act in a manner prejudicial to his interests.
CCD treatmen t	A combination of CCD equipment and techniques applied to a selected target and/or its background to reduce or delay target acquisition.
chaff	Material consisting of thin, narrow, metallic strips of various lengths and frequency responses used as artificial clouds to scatter radar signals.
clutter	EM radiation from sources around the target that tend to hinder target detection.
CM	countermortar
counterm easure	Any technique intended to confuse or mislead hostile sensors.
COMSE C	communications security
concealm ent	The protection from observation or surveillance.

conspicuity	A term peculiar to the CCD community that denotes the perceived difference of one feature in a scene as compared to other features in the scene.
corner reflector	An object that reflects multiple signals from smooth surfaces mounted mutually perpendicular and produces a radar return of greater magnitude than expected from the size of the object the reflector conceals.
counter reconnaissance	All measures taken to prevent hostile observation of a force, an area, or a place.
countersurveillance	All measures, active or passive, taken to counteract hostile surveillance.
cover	Any natural or artificial protection from enemy observation and fire.
covered approach	Any route that offers protection against enemy observation or fire.
CP	command post
CSS	combat service support
cu	cubic
DA	Department of the Army
DC	District of Columbia
deceive	Any action that causes the enemy to believe the false or purposely causes the enemy to make incorrect conclusions based on false evidence.
deception	Those measures designed to mislead the enemy by manipulation, distortion, or falsification of evidence, inducing him to react in a manner prejudicial to his interests.
decoy	An imitation in any sense of a person, an object, or a phenomenon that is intended to deceive enemy surveillance devices or mislead enemy evaluation.
detection	The discovery of an existence or presence.
disguise	Any alteration of identity cues for items, signals, or systems sufficient to cause misidentification by the enemy.
dispersal	Relocation of forces for the purpose of increasing survivability.
disrupt	Any action intended to interrupt the shape or outline of an object or an individual, making it less recognizable.
div	division

DLSC	Defense Logistics Service Center
DOD	Department of Defense
DSN	Defense Switched Network
ea	each
ECCM	electronic counter-countermeasure. Any action involving effective use of the EM spectrum by friendly forces, despite the enemy's use of EW.
ECM	electronic countermeasure. Any action involving prevention or reduction of an enemy's effective use of the EM spectrum. ECMs include electronic jamming and electronic deception.
electronic security	The protection resulting from all measures designed to deny unauthorized persons information of value that, when analyzed, might alert the enemy to the intentions of friendly forces (for example, a signal security provided by encryption equipment).
EM	electromagnetic
EM spectrum	electromagnetic spectrum. The range of frequencies from zero to infinity where energy is transferred by electric and magnetic waves. EM waves at the lower end of this spectrum (low-frequency navigation aids and AM and shortwave radio services) are refracted back to earth by the ionosphere to frequencies as high as 50 MHz. At frequencies above 50 MHz, propagation is generally limited to LOS. These frequencies are used by TV, FM radio, and land-mobile and point-to-point communication services. They extend on to parts of the EM spectrum generally termed as radar, IR, visible light, UV light, and cosmic rays.
EW	electronic warfare. Any military action involving the use of EM energy to determine, exploit, reduce, or prevent hostile use of the EM spectrum; action which retains friendly use of the EM spectrum.
FAAS-V	field artillery ammunition support vehicle
FARP	forward arming and refueling point
FEBA	forward edge of the battle area
fed	federal
FLIRS	Forward-Looking Infrared System. An imaging IR sensor used to acquire a target's heat signature.
FLOT	forward line of own troops
FM	field manual

FM frequency modulation

FOB forward operating base

FOD foreign object damage

fog oil Petroleum compounds of selected molecular weight and composition to facilitate the formation of smoke by atomization, vaporization, and subsequent recondensation.

FOS false operating surface. A simulated horizontal construction placed to represent operating surfaces such as runways, taxiways, parking pads, and access roads.

freq frequency

ft foot, feet

gal gallon(s)

gen generator

GHz gigahertz

GI government issue

GSR ground-surveillance radar

hardening The construction of a facility to provide protection against the effects of conventional or nuclear explosions. The facility may also be equipped to provide protection against chemical or biological attacks. Construction usually involves reinforced concrete placement and/or burying the structure.

HC hydrogen chloride

HEMTT heavy expanded mobility tactical truck

hiding The choice of a position or materials to obstruct direct observation.

HMMWV high-mobility multipurpose wheeled vehicle

how howitzer

HQ headquarters

HTF how to fight

HUD heads-up display

HVT high-value target

hyperspe Refers to a sensor or data with many bands extending over a range of the EM

ctral	spectrum.
imaging radar	An electronic or optical process for recording or displaying a scene generated by a radar sensor.
in	inch(es)
indiv	individual
intervisib ility	The condition of the atmosphere that allows soldiers the ability to see from one point to another. This condition may be altered or interrupted by weather, smoke, dust, or debris.
IPB	intelligence preparation of the battlefield. A systematic approach to analyzing the enemy, weather, and terrain in a specific geographic area. It integrates enemy doctrine with the weather and terrain conditions as they relate to the mission and the specific battlefield environment. IPB provides the framework for determining and evaluating enemy capabilities, vulnerabilities, and probable courses of action.
IR	infrared
IR smoke screen	It produces obscuration in one or more of the transparent IR spectral bands between 0.7 and 14 microns. In most cases, an effective IR smoke screen is also an effective visual smoke screen. However, effective visual smoke screens are not necessarily effective IR smoke screens.
JCCD	Joint Camouflage, Concealment, and Deception
JSTARS	Joint Surveillance Target Attack Radar System
JT&E	Joint Test and Evaluation
lb	pound(s)
LCSS	Lightweight Camouflage Screen System
LLTV	low-light television
LOC	lines of communication
LOS	line of sight
low emissiv y paint	Paint used to lower the apparent temperature of a target (or nearby scene features), thus making the <i>hot</i> target less conspicuous to a thermal target-acquisition sensor. Using a paint that has too low an emissivity (less than 0.6) causes the target to become more visually conspicuous (or shiny).
maskirov ka	The battlefield doctrine of the former Soviet Union.
MCRP	Marine Corps reference publication

MCWP	Marine Corps warfighting publication
mech	mechanized
METT-	mission, enemy, terrain, weather, troops, time available, and civilian
TC	considerations
MHz	megahertz
mil	military
min	minute(s)
MLRS	Multiple Launch Rocket System
mm	millimeter(s)
MOUT	military operations on urbanized terrain
movemen	The methods used by a unit to travel from one point to another (traveling,
t	traveling overwatch, and bounding overwatch) are considered movement
technique	techniques. The likelihood of enemy contact determines which technique is used.
s	
MTI	moving-target indicator
multispec	Refers to a sensor or data in two or more regions of the EM spectrum.
tral	
NA	not applicable
NBC	nuclear, biological, chemical
NCO	noncommissioned officer
NIR	near infrared
No.	number
NSN	national stock number. A 13-digit number assigned to each item of supply purchased, stocked, or distributed within the federal government.
NVD	night-vision device
NWP	Navy warfighting publication
obsc	obscurant. Suspended particulates or entrained liquid droplets that can absorb and/or scatter EM radiation in various parts of the EM spectrum (visual, IR, radar).
obscurati	The effects of weather, battlefield dust, and debris; the use of smoke munitions to
on	hamper observation and target acquisition; and the concealment of activities or

	movement.
OPFOR	opposing forces
OPORD	operation order
OPSEC	operations security. The process of denying adversaries information about friendly capabilities and intentions by identifying, controlling, and protecting signatures associated with planning for and conducting military operations and other activities. It includes countersurveillance and physical, signal, and information security.
oz	ounce(s)
POL	petroleum, oils, and lubricants
PSYOP	psychological operations
pub	publication
radar	A device that uses EM waves to provide information on the range, the azimuth, or the elevation of objects.
radar camoufla ge	Any radar-absorbing or -reflecting material that changes the radar-echoing properties of an object's surface.
radar clutter	Unwanted signals, echoes, or images displayed by a radar unit that interfere with the observation of desired signals.
radar imagery	The picture produced on a radar screen by recording the EM waves reflected from a given target surface.
radio detection	The detection of a radio's presence by intercepting its signals without precise determination of its position.
radio direction-finding	The act of determining the azimuth to a radio transmitter, from a specific location, using signal-detecting equipment.
radio fix	The location of a radio transmitter determined by simultaneously using two direction-finding devices stationed at different locations and plotting the results on a map. The intersection of the two azimuths indicates the transmitter's location.
radio range-finding	The act of determining the distance to a radio transmitter. This technique involves using electronic equipment to intercept and measure a transmitter's emissions and then translating this information into a distance.
RAM	radar-absorbing material. Material that absorbs and dissipates incident radar energy as contrasted to radar-scattering material, which reflects the incident energy in a different direction.

RAP	radar-absorbing paint. A coating that can absorb incident radar energy.
RATEL O	radiotelephone operator
rckt	rocket
RCS	radar cross section. The size of a conducting square, metal plate that would return the same signal to a radar sensor as a target, provided that the radar energy received at the target is reradiated equally in all directions.
recon	reconnaissance. An exploratory survey of a particular area or airspace by visual, aural, electronic, photographic, IR, or other means. It may imply a physical visit to the area.
redundancy	The use of multiple systems with similar perceived functional capabilities to provide higher system survivability.
relocatable asset	A military asset that normally stays in place for a short period of time relative to a fixed asset.
reverse-slope position	A position on the ground that is not exposed to direct fire or observation; for example, a slope that descends away from the enemy.
revetment	A barrier used to protect assets against attack.
ROM	refuel on the move
RSTA	reconnaissance, surveillance, and target acquisition
RT	rough terrain
S&S	supply and service
SAM	surface-to-air missile
SCSPP	standard camouflage screening paint pattern
Scud	A surface-to-surface missile.
signature	Detectable indications that forces are occupying or operating in an area. Signatures can be EM (visible, IR, NIR, radar) or mechanical (acoustic, seismic). Common detectable EM signatures include visible vehicle tracks, thermal flames, and radar signal returns. Common mechanical signatures include radio noise, humans conversing, and seismic ground waves produced by tanks and heavy vehicles.
SLAR	side-looking airborne radar

smk	smoke. An artificially produced aerosol of solid, liquid, or vapor deposited in the atmosphere that inhibits the passage of visible light or other forms of EM radiation.
smky	smoky
smoke generator	A machine that produces large volumes of smoke to support hasty or deliberate operations for screening, protecting, and/or sustaining airfields, ports, staging areas, and bridge crossings. Present smoke generators vaporize liquid aerosol materials such as fog oil, diesel fuel, and polyethylene glycol. These generators consist of a heat source to vaporize the liquid aerosol material and an apparatus for the production of airflow to efficiently disseminate the smoke vapor into the atmosphere where it disperses and condenses.
smoke pot	An expendable bucket- or pot-like munition that produces dense smoke by burning combustible material.
smoke screen	Smoke generated to deceive or confuse an enemy as to the activities of tactical elements.
SOP	standing operating procedure
SP	self-propelled
sq	square
STANAG	standardization agreement
std	standard
surveillance	A systematic observation of airspace or surface areas by visual, aural, electronic, photographic, IR, or other means.
survivability	Activities involving the development and construction of fighting and protective positions (earth berms, defilade positions, overhead protection, camouflage) that reduce the effectiveness of enemy detection systems.
operation	
TAA	tactical assembly area
TACSOP	tactical standing operating procedure
target acquisition	The process involving the detection and identification of hostile operations and equipment for subsequent engagement.
target scene	The view of a target area that includes both the target and its surroundings.
temp	temporary

terrain analysis	The process of examining a geographic area to determine what effects its natural and man-made features may have on military operations.
terrain mottling	A camouflage technique normally used in desert terrain. It involves scarring the earth with heavy equipment to expose patches of bare ground. Equipment and supplies are placed on the bare patches to avoid detection by aerial reconnaissance.
thermal contrast	The difference in radiance (as usually measured in the 8-to-14 micron band) between two features of a scene; for example, a target and its background.
thermal crossover	A temporary situation, in the morning or evening, when the target and background temperatures become equal.
thermal emissivity	<p>The ratio of the emissive power of a surface to that of a black body. The emissivity is 1 for a black body and 0.9 for most natural and man-made materials.</p> <p>The apparent temperature of a target can be reduced by reducing its real temperature and/or lowering its emissivity. Unfortunately, as the thermal emissivity is lowered, its reflectivity in the visual portion of the spectrum increases, thus making the target more conspicuous to a visual sensor. A typical compromise is 0.7, which lowers the apparent target temperature but does not make it too shiny in the visible spectrum.</p>
TM	technical manual
TMD	tactical missile defense
tone down	The process of blending a target or other high-value asset with the background by reducing its brightness characteristics using nets or coatings. The recommended reflectance of a target as compared with the surrounding scene is 10 percent or less.
TOW	tube-launched, optically tracked, wire-guided
TRADOC	United States Army Training and Doctrine Command
TV	television
UAV	unmanned aerial vehicle
US	United States
USAES	United States Army Engineer School
UV	ultraviolet
V	volt
VHF	very high frequency

w/ with

w/o without

WSA weapons storage area

$\mu$  micron(s)

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